

Db		236	GCTTCCTTCTGACAGCAGAGGTCGACTTATCAAGGATCTCCCTCACTGGACACAG	295
Qy		81	LeuLysAlaAspGluLysTyrPheIleSerHisIleLeuAlaPhePheAlaAlaSerAsp	100
Db		296	CTTAAAGCAGATGAGAGTACTTCTCATCTAGCCCTTTTTCAGCCAGTGAT	355
Qy		101	GlyIleValAsnGluAsnLeuValGluArgPheSerGlnGluValGlnValProGluAla	120
Db		356	GGAAATGTAAATGAAATTTGGTGGAGCGCTTTAGTCAGGAGGTGCAGGTCCAGAGGCT	415
Qy		121	ArgCysPheTyrGlyPheGlnIleLeuIleGluAsnValHisSerGluMetTyrSerLeu	140
Db		416	CGCTGTTTCTATGGCTTTCAAATTTCTATCGAGATGTTCACTCAGAGATGTACAGTTTG	475
Qy		141	LeuIleAspThrTyrIleArgAspProLysLysArgGluPheLeuPheAsnAlaIleGlu	160
Db		476	CTGATAGACACTTACATCAGAGATCCCAAGAAAGGGAATTTTATTTAATGCAATTGAA	535
Qy		161	ThrMetProTyrValLysLysAlaAspTnAlaLeuArgTTrIleAlaAspArgLys	180
Db		536	ACCATGCCCTATGTAAAGAAAGCAGATGGGCTTGCAGTGGATAGCATAGATAAAAA	595
Qy		181	SerThrPheGlyGluArgValValAlaPheAlaAlaValGluGlyValPhePheSerGly	200
Db		596	TCTACTTTTGGGAAAGAGTGGCTTTGCTGTGTAGAGGAGTTTCTTCTCAGGA	655
Qy		201	SerPheAlaAlaIlePheTrpLeuLysLysArgGlyLeuMetProGlyLeuThrPheSer	220
Db		656	TCCTTTTGCTGTATATTCTGGCTTAAAGAAAGAGAGGTCTTATGCCAGGACTCACTTTTTC	715
Qy		221	AsnGluLeuIleSerArgAspGluGlyLeuHisCysAspPheAlaCysLeuMetPheGln	240
Db		716	AATGAACCTCATCAGCAGAGATGAAGGACTTCACTGTGACTTTGCTTGCCTGATGTCCAA	775
Qy		241	TyrLeuValAsnLysProSerGluGluArgValArgGluIleIleValAspAlaValLys	260
Db		776	TACTTAGTAATAAGCCCTTCAAGAAAGGGTCAGGAGATCATTTGTTGATGCTGTCAA	835
Qy		261	IleGluGlnGluPheLeuThrGluAlaLeuProValGlyLeuIleGlyMetAsnCysIle	280
Db		836	ATTGAGCAGGAGCTTTTAACAGAGCCTTGCCAGTTGGCTCATTTGGAATGAATTGCATT	895
Qy		281	LeuMetLysGlnTyrIleGluPheValAlaAspArgLeuLeuValGluLeuGlyPheSer	300
Db		896	TTGATGAAACAGTACATTCAGTTTGTAGCTGACAGATTACTTTGTGGAACTTGGATTCTCA	955
Qy		301	LysValPheGlnAlaGluAsnProPheAspPheMetGluAsnIleSerLeuGluGlyLys	320
Db		956	AAGGTTTTTTCAGGCAGAAATCCTTTTGATTTTATGGAACACATTTCTTTAGAGGAAAA	1015
Qy		321	ThrAsnPhePheGluLysArgValSerGluTyrGlnArgPheAlaValMetAlaGluThr	340
Db		1016	ACAAATTTCTTTGAGAAACAGTTTCAGAGTATCAGCGTTTTCAGTTATGGCAGAAACC	1075
Qy		341	ThrAspAsnValPheThrLeuAspAlaAspPhe	351
Db		1076	ACAGATAAGCTCTTCACTTGGATGCAGATTTT	1108

RESULT 5
AAF32439
ID AAF32439 standard; cDNA; 4955 BP.
XX AAF32439;
AC
XX
DT 18-APR-2001 (first entry)
XX
DE Human ribonucleotide reductase related nucleotide sequence SEQ ID NO:3.
XX Human; ribonucleotide reductase; cancer; DNA repair; p53; ss.
XX Homo sapiens.
OS
XX

Db 836 95
 QY 281 00
 Db 896 35
 QY 301 20
 Db 956 115
 QY 321 0
 Db 1016 175
 QY 341
 Db 1076

RESULT 5

US-60-128-660-20
 ; Sequence 20, Application US/60128660
 ; GENERAL INFORMATION:
 ; APPLICANT: Lal, Preeti
 ; APPLICANT: Tang, Y. Tom
 ; APPLICANT: Hillman, Jennifer L.
 ; APPLICANT: Yue, Henry
 ; APPLICANT: Yang, Junming
 ; APPLICANT: Baughn, Mariah R.
 ; FILE OF INVENTION: RNA-ASSOCIATED PROTEINS
 ; FILE REFERENCE: PF-0682 P
 ; CURRENT APPLICATION NUMBER: US/60/128,660
 ; CURRENT FILING DATE: 1999-04-08
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 20
 ; LENGTH: 2596
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: 2604449
 US-60-128-660-20

Alignment Scores:

Pred. No.: 1.3e-193 Length: 2596
 Score: 1821.00 Matches: 351
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 81 Gaps: 0

US-10-698-228-1 (1-351) x US-60-128-660-20 (1-2596)

QY 1 MetGlyAspProGluArgProGluAlaAlaGlyLeuAspGlnAspGluArgSerSer 20
 Db 56 ATGGCGCACCCCGGAAGCGCGCGGCTGGATCAGGATGAGAGATCATCTTCA 115
 QY 21 AspThrAsnGluSerGluLeuLeuSerAsnGluProLeuLeuArgLysSerArg 40
 Db 116 GACACCAACGAAAGTGAATTAAGTCAATGAAGGCCACTCTTAAGAAAGATTCTCGC 175
 QY 41 ArgPheValIlePheProIleGlnTyrProAspIleTrpLysMetTyrLysGlnAlaGln 60
 Db 176 CGGTTTGTCTATCTTCCATCCAGTACCTGATATTGGAAAAATGTATAAACAGGCACAG 235
 QY 61 AlaserPheTrpThrAlaGluGluValAspLeuSerLysAspLeuProHisTrpAsnLys 80
 Db 236 GCTTCCTCTCGGACAGCAGAGAGGTGCACTTATCAAGGATCTCCCTCACTGGACAAAG 295
 QY 81 LeuLysAlaAspGluLysTyrPheIleSerHisIleLeuAlaPheAlaAlaSerAsp 100
 Db 296 CTTAAGCAGATGAGAGAGTACTTCTCATCTCTCATCTTTTGTGACCGAGTGAT 355

David M. M. M.

QY 101 GlyIleValAsnGluAsnLeuValGluArgPheSerGlnGluValGlnValProGluAla 120
 Db 356 GGAATTTGTAATGAAATTTGGTGGAGCGCTTAGTCAGAGGTGCGAGGCTTCCAGAGGCT 415
 QY 121 ArgCysPheTyrGlyPheGlnIleLeuIleGluAsnValHisSerGluWettTyrSerLeu 140
 Db 416 CGCTGTTTCATAGGCTTTCAAATTCATCGAGAATGTTCACTCAGAGATGTACAGTTTG 475
 QY 141 LeuIleAspThrTyrIleArgAspProLysLysArgGluPheLeuPheAsnAlaIleGlu 160
 Db 476 CTGATAGACACTTACATCAGATCCCAAGAAAGGGGATTTTATTTAATGCAATGAA 535
 QY 161 ThrMetProTyrValLysLysLysAlaAspTrrPalaLeuArgTrrIleAlaAspArgLys 180
 Db 536 ACCATGCCCTATGTTAAGAAAAAGCAGATTCGGGCTTGGGATGGATAGCAGATAGAAA 595
 QY 181 SerThrPheGlyGluArgValAlaIlePheAlaValGluGluGlyValPhePheSerGly 200
 Db 596 TCTACTTTTGGGAAAGAGTGTGGCCCTTGTCTGTAGAGGAGTTTCTTCTCAGGA 655
 QY 201 SerPheAlaIlePheTrrLeuLysLysArgGlyLeuMetProGlyLeuThrPheSer 220
 Db 656 TCTTTTGTCTATATTCTGCTAAGAGAGAGGTCTTATGCCAGGACTCACITTTTTC 715
 QY 221 AsnGluLeuIleSerArgAspGluGlyLeuHisCysAspPheAlaCysLeuMetPheGln 240
 Db 716 AATGAACCTCATCAGCAGAGATGAGGACTTCACTGTGACTTTGCTTGTCTGTCTCCAA 775
 QY 241 TyrLeuValAsnLysProSerGluGluArgValArgGluIleIleValAspAlaValLys 260
 Db 776 TACTTAGTAATAAGCCCTTCAGAGAAAGGGTCAGGGAGATCATTTGTTGCTGTCAA 835
 QY 261 IleGluGlnGluPheLeuThrGluAlaLeuProValGlyLeuIleGlyMetAsnCysIle 280
 Db 836 ATTGAGCAGAGGTTTAAACAGAGCCCTTGCAGTTGGCCCTCATTTGGAATGAATTGCATT 895
 QY 281 LeuMetLysGlnTyrIleGluPheValAlaAspArgLeuValGluLeuGlyPheSer 300
 Db 896 TTGATGAACAGTACATTTAGTTGTAGCTGACAGATTACTTTGTGGAACTTGGATTCTCA 955
 QY 301 LysValPheGlnAlaGluAsnProPheAspPheMetGluAsnIleSerLeuGluGlyLys 320
 Db 956 AAGGTTTTTCAGGCAGAAATCCCTTTTGTATTTATGGAAAAACATTTCTTTAGAGGAAAA 1015
 QY 321 ThrAsnPheGluLysArgValSerGluTyrGlnArgPheAlaValMetAlaGluThr 340
 Db 1016 ACAATTTCTTTGAGAAACGAGTTTCAGAGTATCAGCGTTTTCAGTTATGGCAGAAACC 1075
 QY 341 ThrAspAsnValPheThrLeuAspAlaAspPhe 351
 Db 1076 ACAGATAACGCTTTCACCTTGGATGCAGATTTT 1108

HUMA
OF

QY 10.
Db 102.

RESULT 2
AA12411
ID AAA12411 standard; cDNA; 2596 BP.

XX AC AAA12411;

XX DT 25-JUL-2000 (first entry)

XX DE cDNA encoding a human RNA-associated protein.

XX Human; RNA-associated protein; cell proliferation; cancer; inflammation;
KW immune response; reproductive disorder; actinic keratosis;
KW atherosclerosis; arteriosclerosis; bursitis; cirrhosis; hepatitis;
KW mixed connective tissue disease; myelofibrosis; primary thrombocythemia;
KW paroxysmal nocturnal hemoglobinuria; polycythemia vera; psoriasis;
KW trauma; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers
FT CDS 56..1111
FT /*tag= a
FT /product= "RNA-associated protein"

XX WO200015799-A2.

XX 23-MAR-2000.

XX PF 17-SEP-1999; 99WO-US021688.

XX PR 17-SEP-1998; 98US-00156039.

XX PR 22-SEP-1998; 98US-00158720.

XX PR 04-NOV-1998; 98US-00186815.

XX PR 08-APR-1999; 99US-0128660P

XX PA (INCY-) INCYTE PHARM INC.

XX PI Tang YT, Corley NC, Guegler KJ, Gorgone GA, Patterson C;
PI Hillman JL, Baughn MR, Lal P, Azimzai Y, Yue H, Yang J;

XX WPI; 2000-271437/23.

XX DR P-FSDB; AAY84439.

XX New polypeptides and polynucleotides, useful for preventing and treating
PT a disorder associated with increased or decreased expression of RNA
PT associated proteins.

XX Claim 9; Page 120-121; 131pp; English.

XX The present sequence encodes a human RNA-associated protein. The
CC expression of RNA-associated proteins is closely associated with
CC reproductive tissues, nervous tissues, cell proliferation including
CC cancer, inflammation and immune responses, and so they may be used for
CC diagnosis, treatment or prevention of cell proliferative,
CC immune/inflammatory disorders, and reproductive disorders. Diseases and
CC disorders which may be treated include actinic keratosis, hepatitis, mixed
CC atherosclerosis, arteriosclerosis, bursitis, cirrhosis, paroxysmal nocturnal
CC connective tissue disease, myelofibrosis, paroxysmal nocturnal
CC hemoglobinuria, polycythemia vera, psoriasis, primary thrombocythemia
CC and cancers, and trauma

XX SQ Sequence 2596 BP; 783 A; 418 C; 510 G; 885 T; 0 U; 0 Other;

Query Match 100.0%; Score 1053; DB 3; Length 2596;

Best Local Similarity 100.0%; Pred. No. 1.5e-290;

Matches 1053; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGGCGACCCGGAAGCGCGGGCTGGATCAGATCATCTTCA 60

1622102
SIDZ
N-Geneseg-1622102

4--has SIDZ



Db 56 ATGGCGGACCCGGAAGGCGGCGGCTGGATCAGATGAGAGATCATCTTCA 115
Qy 61 GACACCAACGAAGTGAATAAAGTCAATGAAGAGCCACTCTCTAAGAAAGAGTTCTCGC 120
Db 116 GACACCAACGAAGTGAATAAAGTCAATGAAGAGCCACTCTCTAAGAAAGAGTTCTCGC 175
Qy 121 CGGTTTGTCATCTTTTCCAAATCCAGTACCTCTGATATTTGGAAATGTATAACAGGCACAG 180
Db 176 CGGTTTGTCATCTTTTCCAAATCCAGTACCTCTGATATTTGGAAATGTATAACAGGCACAG 235
Qy 181 GCTTCCTCTCTGACAGCAGAGAGGTGAGCTTATCAAGGATCTCCCTCACTGGAAACAAG 240
Db 236 GCTTCCTCTCTGACAGCAGAGAGGTGAGCTTATCAAGGATCTCCCTCACTGGAAACAAG 295
Qy 241 CTTAAAGCAGATGAGAAGTACTTCACTCTCACTTAGCCCTTTTTCAGGCCAGTGAT 300
Db 296 CTTAAAGCAGATGAGAAGTACTTCACTCTCACTTAGCCCTTTTTCAGGCCAGTGAT 355
Qy 301 GGAAATTGTAATGAATAATTTGGTGGAGCGCTTTAGTCAGGAGTGCAGGTTCCAGAGGCT 360
Db 356 GGAAATTGTAATGAATAATTTGGTGGAGCGCTTTAGTCAGGAGTGCAGGTTCCAGAGGCT 415
Qy 361 CGCTGTTCTATGCGCTTTCAAAATTTCTCATCGAATGTTCACTCAGAGATGTACAGTTTG 420
Db 416 CGCTGTTCTATGCGCTTTCAAAATTTCTCATCGAATGTTCACTCAGAGATGTACAGTTTG 475
Qy 421 CTGATAGACACTTACATCAGAGATCCCAAGAAAGGGAATTTTATTAATGCAATGAA 480
Db 476 CTGATAGACACTTACATCAGAGATCCCAAGAAAGGGAATTTTATTAATGCAATGAA 535
Qy 481 ACCATGCCCTATGTTAAGAAAGGAGTGGGCTTGGCTGTAGAAGAGTTCCTTCTCAGGA 540
Db 536 ACCATGCCCTATGTTAAGAAAGGAGTGGGCTTGGCTGTAGAAGAGTTCCTTCTCAGGA 595
Qy 541 TCTACTTTTGGGAAAGAGTGGGCTTGGCTGTAGAAGAGTTCCTTCTCAGGA 600
Db 596 TCTACTTTTGGGAAAGAGTGGGCTTGGCTGTAGAAGAGTTCCTTCTCAGGA 655
Qy 601 TCTTTTGTCTATATTTCTGGCTAAAGAGAGGTCTTATGCCAGGACTCACTTTTTC 660
Db 656 TCTTTTGTCTATATTTCTGGCTAAAGAGAGGTCTTATGCCAGGACTCACTTTTTC 715
Qy 661 AATGAACCTCATCAGCAGAGATGAAGGACTTCACTGTGACTTGGCTTGCCTGATGTTCCAA 720
Db 716 AATGAACCTCATCAGCAGAGATGAAGGACTTCACTGTGACTTGGCTTGCCTGATGTTCCAA 775
Qy 721 TACTTAGTAATTAAGCCTTCAGAAAGAGGTTCAGGAGATCAATTTGTGATGCTGTCAA 780
Db 776 TACTTAGTAATTAAGCCTTCAGAAAGAGGTTCAGGAGATCAATTTGTGATGCTGTCAA 835
Qy 781 ATTGAGCAGAGATTTTAAACAGAGCCCTTGCAGTGGCCCTCATTTGGAATGAATGCAAT 840
Db 836 ATTGAGCAGAGATTTTAAACAGAGCCCTTGCAGTGGCCCTCATTTGGAATGAATGCAAT 895
Qy 841 TTGATGAAACAGTACATTTAGTTGTAGCTGACAGATTTACTTGTGGAACTTGGATTTCA 900
Db 896 TTGATGAAACAGTACATTTAGTTGTAGCTGACAGATTTACTTGTGGAACTTGGATTTCA 955
Qy 901 AAGGTTTTTCAGGCAGAGAAATCCTTTGATTTATGGAATAACATTTCTTTAGAGGAAAA 960
Db 956 AAGGTTTTTCAGGCAGAGAAATCCTTTGATTTATGGAATAACATTTCTTTAGAGGAAAA 1015
Qy 961 ACAATTTCTTTGAGAAACGAGTTTCAGAGTATCAGCGTTTTCAGGTTATGGCAGAAACC 1020
Db 1016 ACAATTTCTTTGAGAAACGAGTTTCAGAGTATCAGCGTTTTCAGGTTATGGCAGAAACC 1075
Qy 1021 ACAGATAACGTTCTTCACTTGGATGAGATTTT 1053
Db 1076 ACAGATAACGTTCTTCACTTGGATGAGATTTT 1108

; Sequence 20, Application US/60128660

: GENERAL INFORMATION:

APPLICANT: Lal, Preeti

; APPLICANT: Tang. Y. Tong

APPLICANT: Tang, Y. Tom
APPLICANT: Hillman, Jennifer L.

APPLICANT: Hillman, Jerry

APPLICANT: Yue, Henry

APPLICANT: Yang, Junming

APPLICANT: Baughn, Mariah R.

1. TITLE OF INVENTION: RNA-ASSOCIATED PROTEIN

FILE REFERENCE: PP-0682 P

; CURRENT APPLICATION NUMBER: US/

CURRENT FILING DATE: 199

NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PI

; SEQ ID NO 20

; LENGTH: 25

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; LENGTH: 2000
; TYPE: DNA

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TYPE: DNA
ORGANISM:

; ORGANISM: HOMO SAPIENS
; FEATURE: -

OTHER INFORM

Query Match	100.0%;	Score 1053;	DB 81;	Length 2596;
Best Local Similarity	100.0%;	Pred. No. 2.9e-276;		
Matches 1053;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

1	ATGGGCGACCGCGAAAGCGCGGCGCGGCTGGATCAGATGAGAGATCATCTTCA	60
56	ATGGGCGACCGCGAAAGCGCGGAGCGCGGCTGGATCAGATGAGAGATCATCTTCA	115
61	GACACCAACGAAGTGAATTAAGTCAAAATCAAGAGCCACTCCCTAAGAAGAGTTCTCGC	120
116	GRACCAACGAAGTGAATTAAGTCAAAATGAAGAGCCACTCCCTAAGAAGAGTTCTCGC	175
121	CGGTTTGTCTATCTTTCCAAATCCAGTACCGCTCATATTTTGGAAAAATGTATAAACAAGGCACAG	180
176	CGGTTTGTCTATCTTTCCAAATCCAGTACCGCTCATATTTTGGAAAAATGTATAAACAAGGCACAG	235
181	GCTTCTCTTGGACAGCAGAGAGGTCGACTTATCAAAAGGATCTCCCTCATCTGGAAACAAG	240
236	GCTTCTCTTGGACAGCAGAGAGAGGTCGACTTATCAAAAGGATCTCCCTCATCTGGAAACAAG	295
241	CTTAAAGCAGATGAGAAGTACTTTCATCTCTCACATCTTAGCGTTTTTTTGGAGCCAGCTCAT	300
296	CTTAAAGCAGATGAGAAGTACTTTCATCTCTCACATCTTAGCGTTTTTTTGGAGCCAGCTCAT	355
301	GGAACTGTAATGAATAATTTGGTGGAGCGCTTTAGTCAGGAGGTGCAGGTTCCAGAGGCT	360
356	GGAACTGTAATGAATAATTTGGTGGAGCGCTTTAGTCAGGAGGTGCAGGTTCCAGAGGCT	415
361	CGCTGTTTCTATGGCTTTCAAATTTCTCATCGAGAATGTTCACTCAGAGATGTACAGTTTG	420
416	CGCTGTTTCTATGGCTTTCAAATTTCTCATCGAGAATGTTCACTCAGAGATGTACAGTTTG	475
421	CTGATAGACACTTATCATCAGAGATCCCAAGAAAAAGGGAATTTTATTTAATGCAATTGAA	480
476	CTGATAGACACTTATCATCAGAGATCCCAAGAAAAAGGGAATTTTATTTAATGCAATTGAA	535
481	ACCATGCCCTATGTTAAGAAAAAAGCAGATTGGCGCTTGGCATGTGATAGCAGATAGAAAA	540
536	ACCATGCCCTATGTTAAGAAAAAAGCAGATTGGCGCTTGGCATGTGATAGCAGATAGAAAA	595
541	TCTACTTTTGGGGAAGAGTGGTGCCCTTTCGTGCTGTAGAAGGAGTTTCTTCTTCAGGA	600
596	TCTACTTTTGGGGAAGAGTGGTGCCCTTTCGTGCTGTAGAAGGAGTTTCTTCTTCAGGA	655
601	TCTTTTGTGCTATATTTCTGGCTAAAGAAGAGAGGCTTATATGCCAGGACTCACTTTTTC	660
656	TCTTTTGTGCTATATTTCTGGCTAAAGAAGAGAGGCTTATATGCCAGGACTCACTTTTTC	715
661	AATGAACCTCATCAGCAGAGATGAAGGACTTCTCATGTGACTTTTGTGCTGATGTTCCAA	720
716	AATGAACCTCATCAGCAGAGATGAAGGACTTCTCATGTGACTTTTGTGCTGATGTTCCAA	775